

# R-4701 Annual Report - FY06



# **Traffic Signal Maintenance Management Program**

## **Traffic Signals**

### **Key Components of a Good Level Of Service**

#### **1. Emergency Maintenance Maximum Response Times**

- Trouble Calls - 4 hours**
- Knockdowns - 4 hours**
- Absence of a signal indication - Next working day**
- Replacement of inoperative loops - 30 calendar days**

#### **2. Preventive Maintenance**

- Visit the intersection every 6 months**
  - Verify programming parameters in equipment**
  - Verify proper operation of all signal control components**
  - Verify proper operation of detection devices**
  - Verify proper operation of communication equipment**

# **Traffic Signal Maintenance Management Program**

## **Traffic Signals**

### **Key Components of a Good Level Of Service (Con't)**

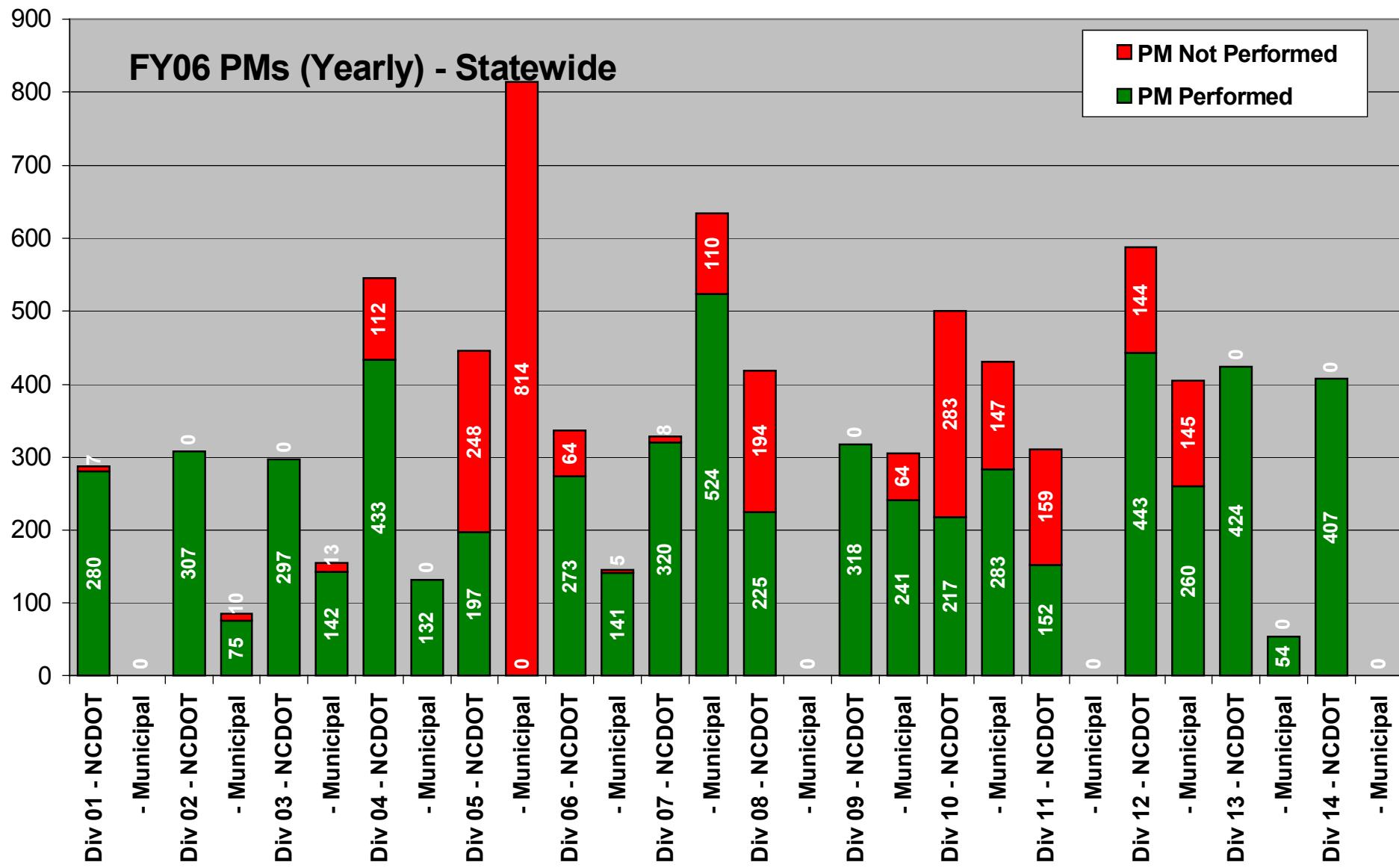
- Visit the intersection every 12 months
  - Inspect electrical supply, grounding systems, and all wiring for damage or loose connections
  - Inspect replaceable components for excessive wear, corrosion, proper operation
  - Replace conflict monitor with bench-tested unit
  - Inspect and clean traffic signal heads and lighted signs
  - Inspect traffic signal support structures
  - Perform Railroad Preemption Inspection

### **3. Bench Maintenance**

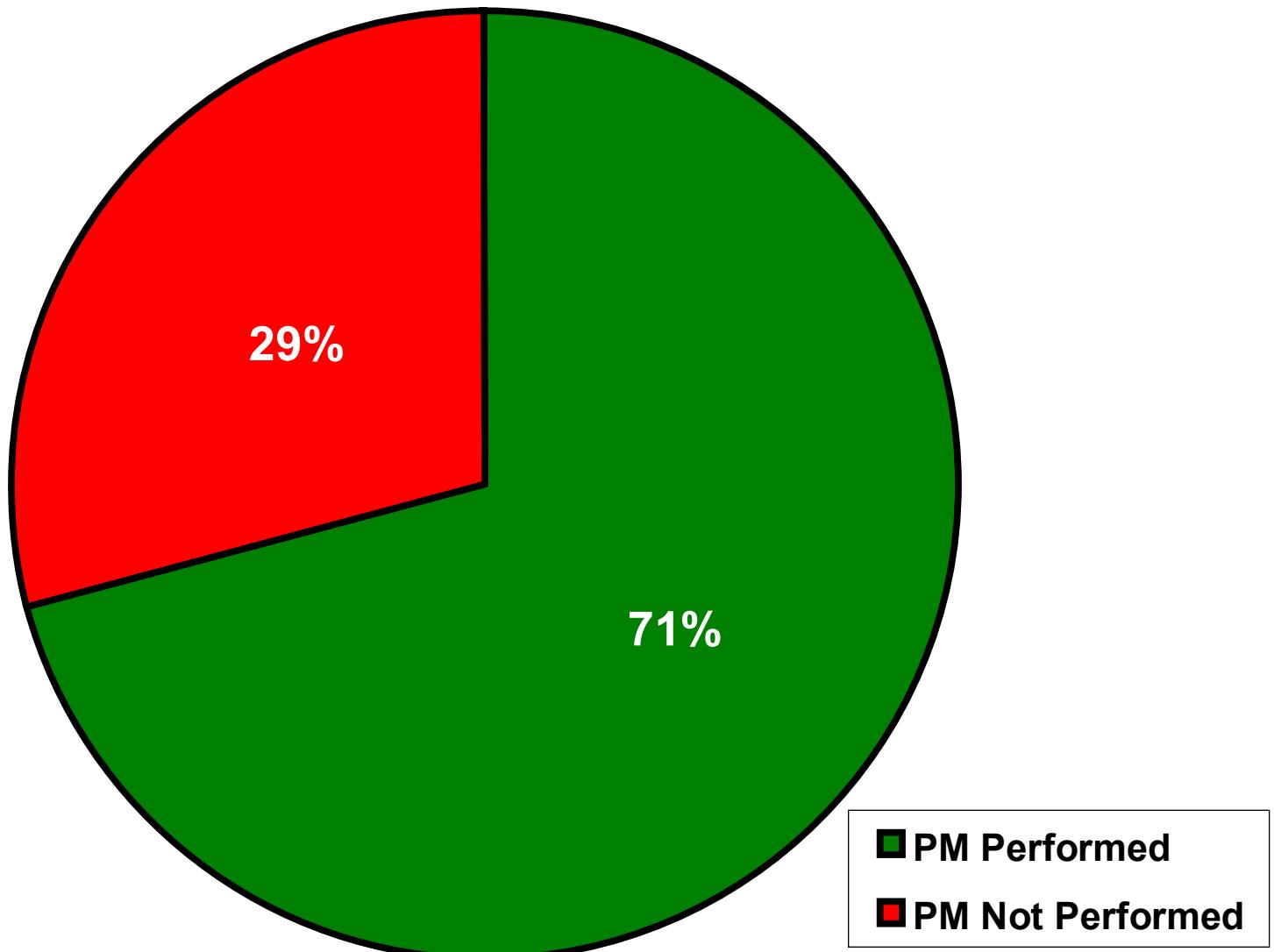
- Repair equipment in a timely manner to support emergency and preventive maintenance needs
- Upgrade equipment firmware as appropriate to address items affecting operational efficiency and safety
- Certify the proper operation of conflict monitors/malfunction management units

# **Key Components of “Good” Level of Service Traffic Signal Systems**

- +80% of signals controlled by system
- Timing plans evaluated every 18 months - implemented within 6 months
- Implement new plans on significant growth corridors annually
- Maintain active traffic data collection program
  - 80% of system detectors operational
  - Maximum time to repair is 60 days
- New intersections have timing plans implemented within 30 days
- Perform PM every 6 months
- Control Center is staffed during AM & PM peak hours and special events
- Traffic responsive plans used where appropriate

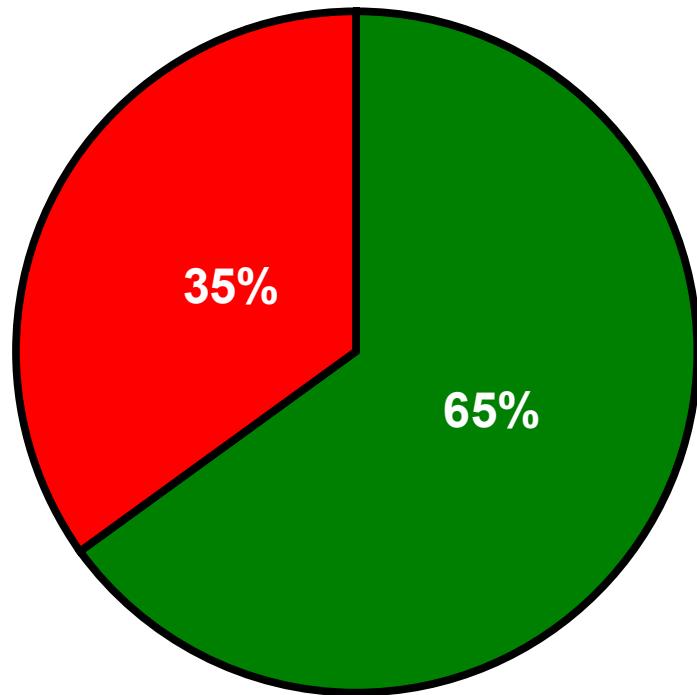


## FY06 PMs (Yearly) - Statewide

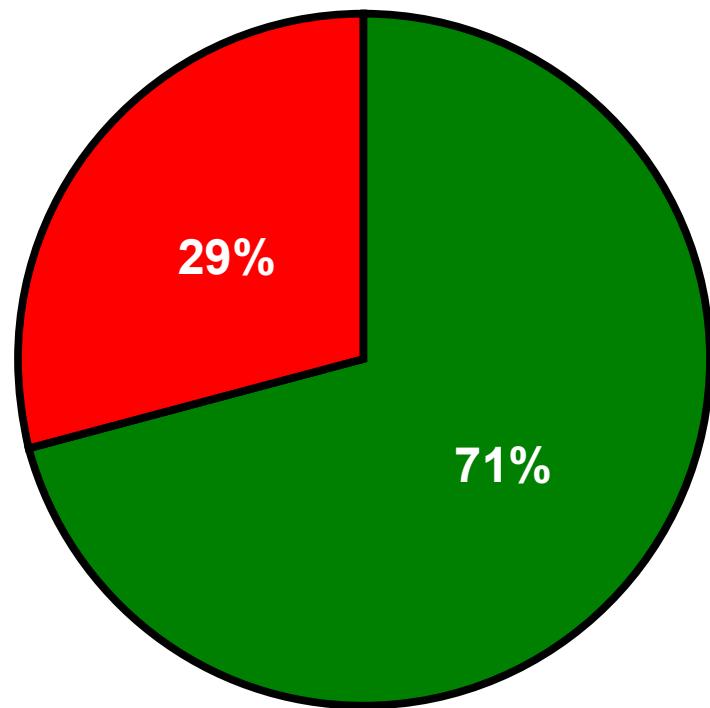


## PMs - Statewide

FY05

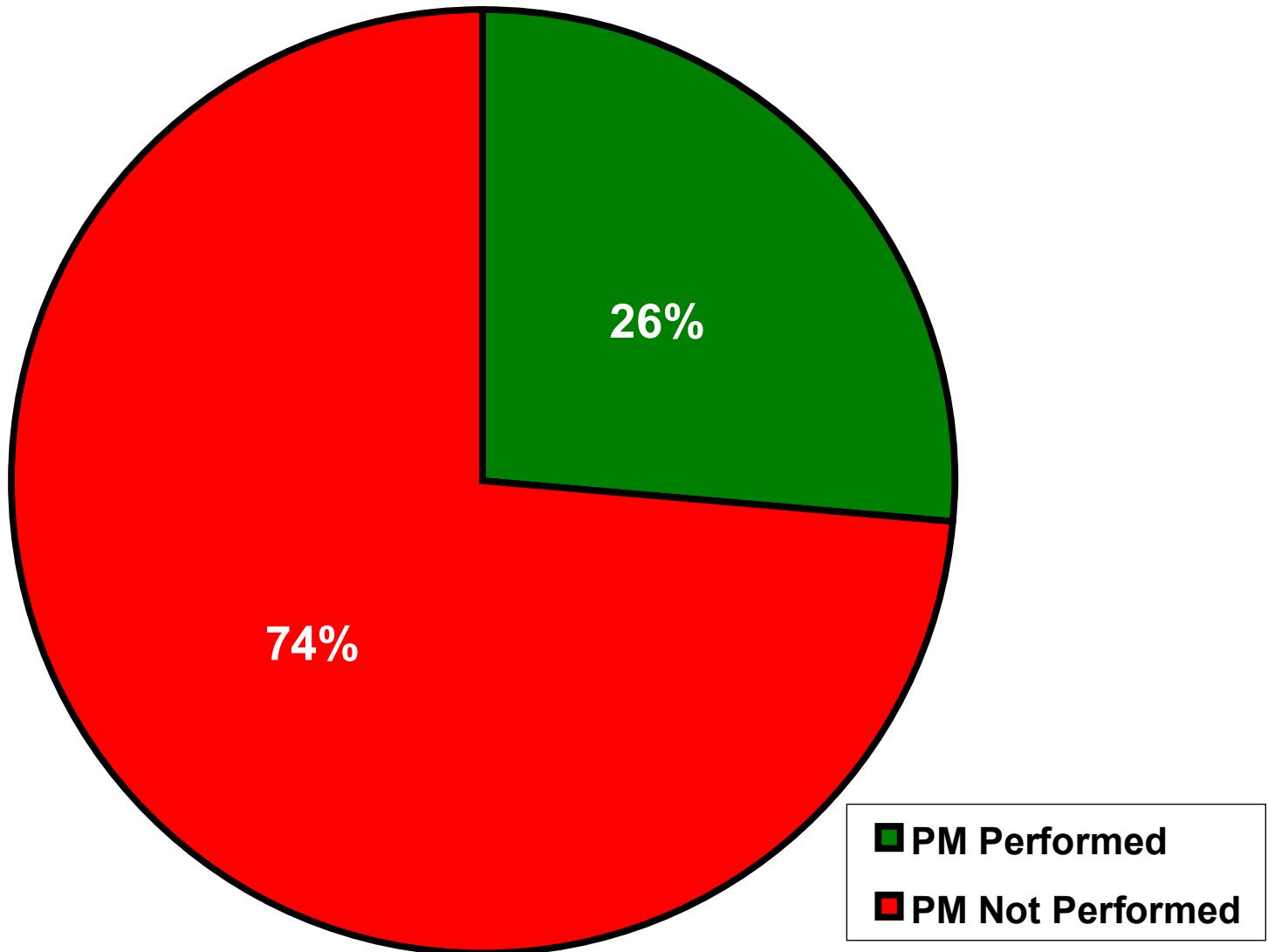


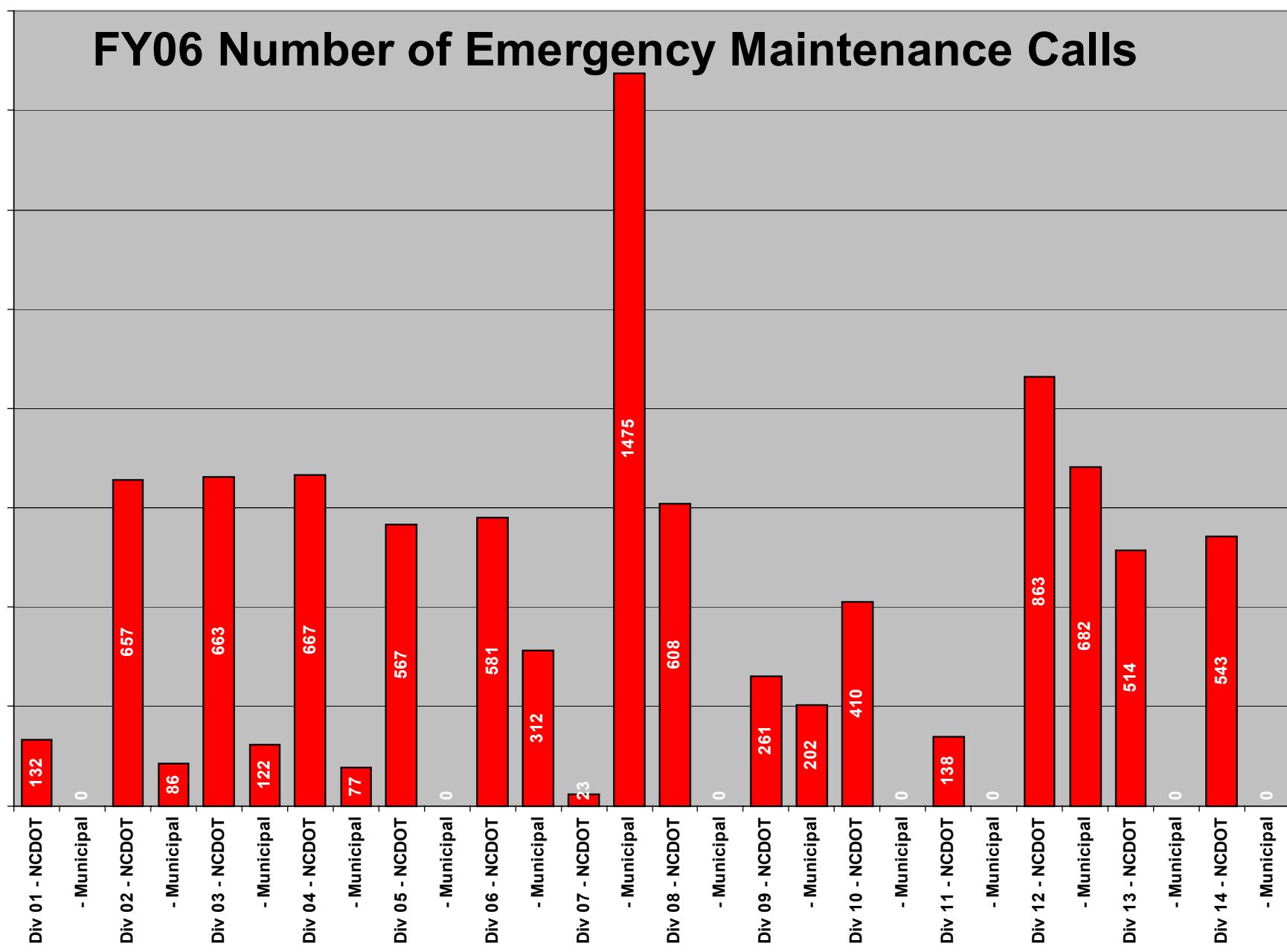
FY06



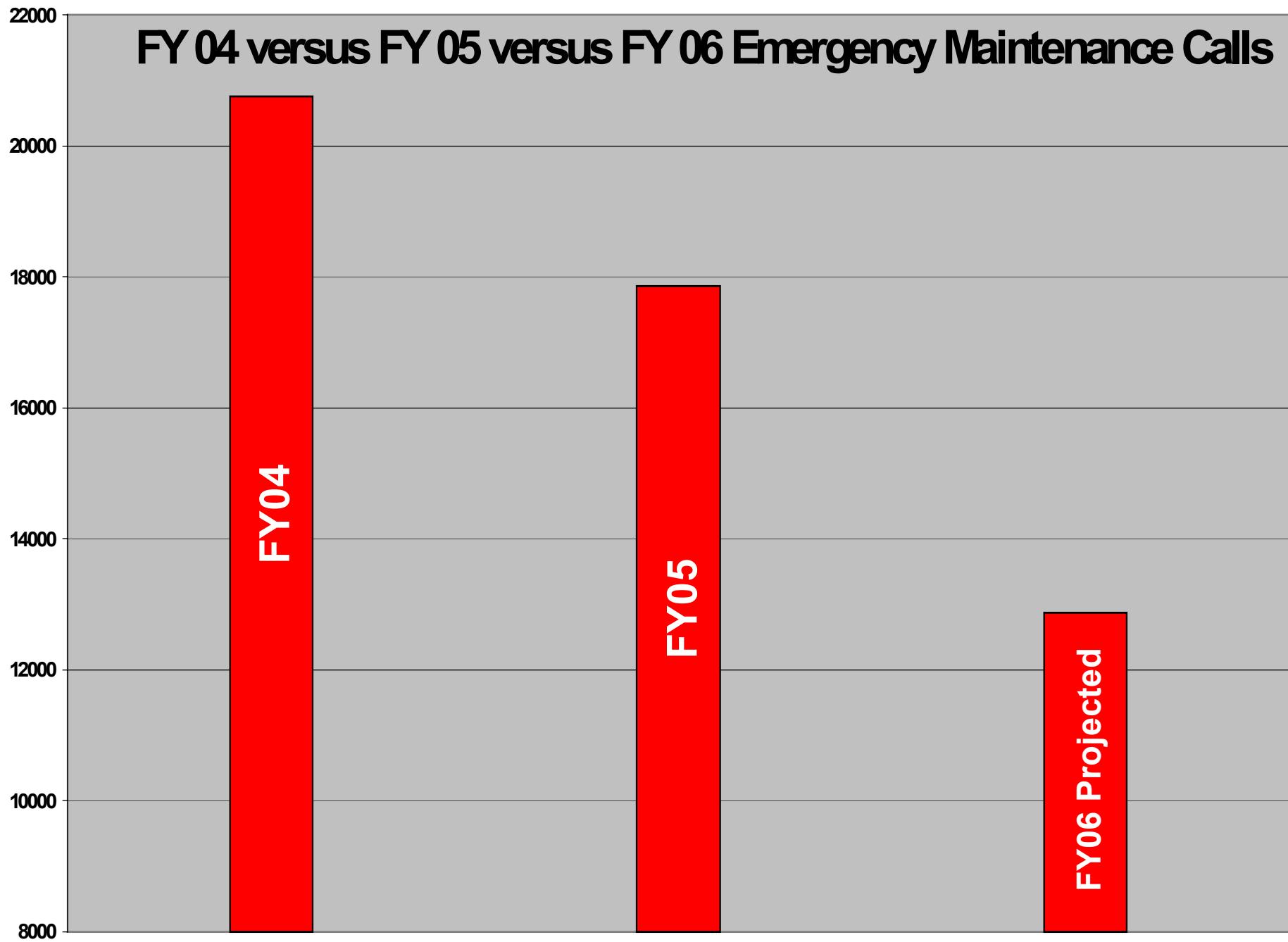
- PM Performed
- PM Not Performed

## FY06 PMs (6 Month) - Statewide

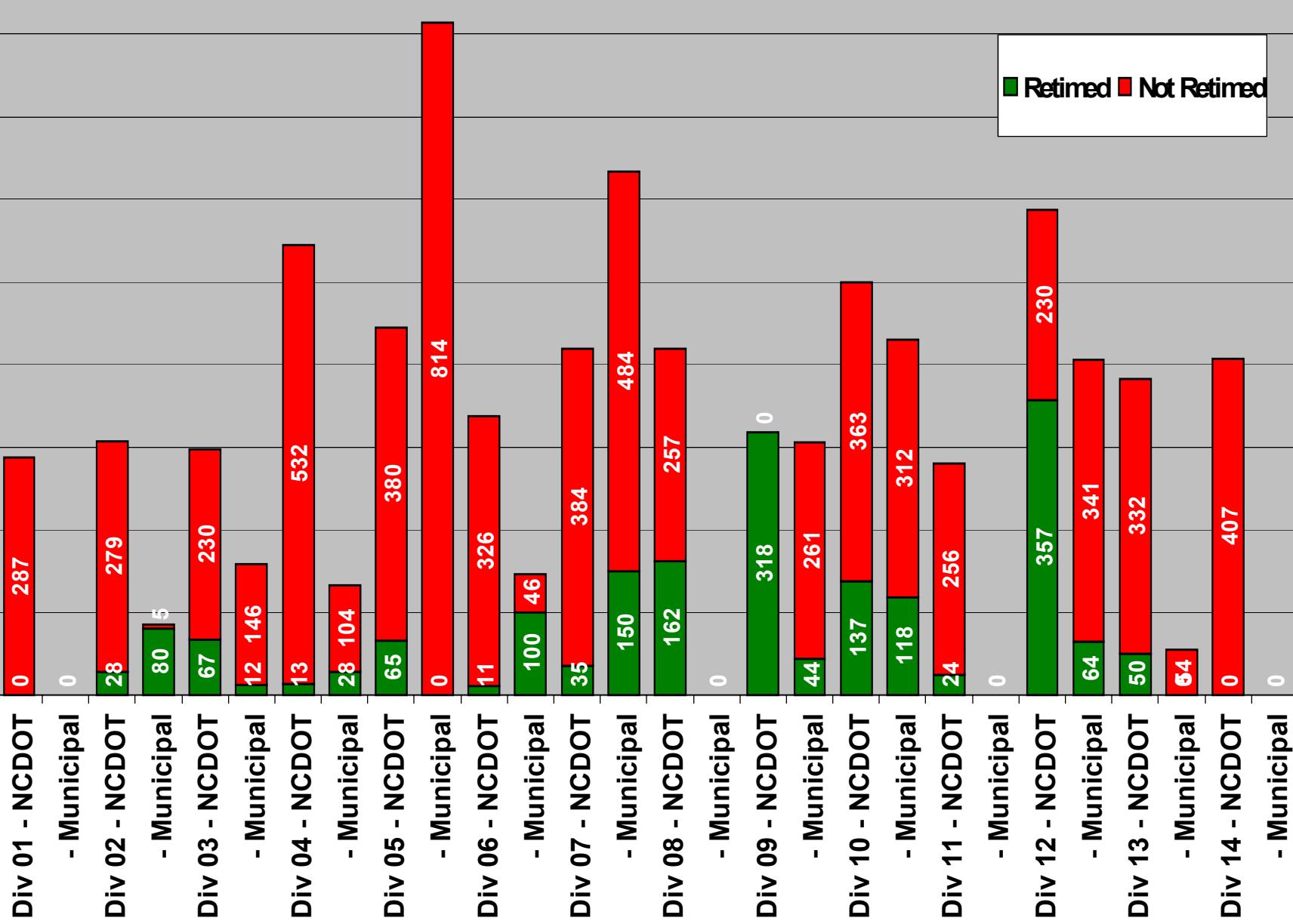




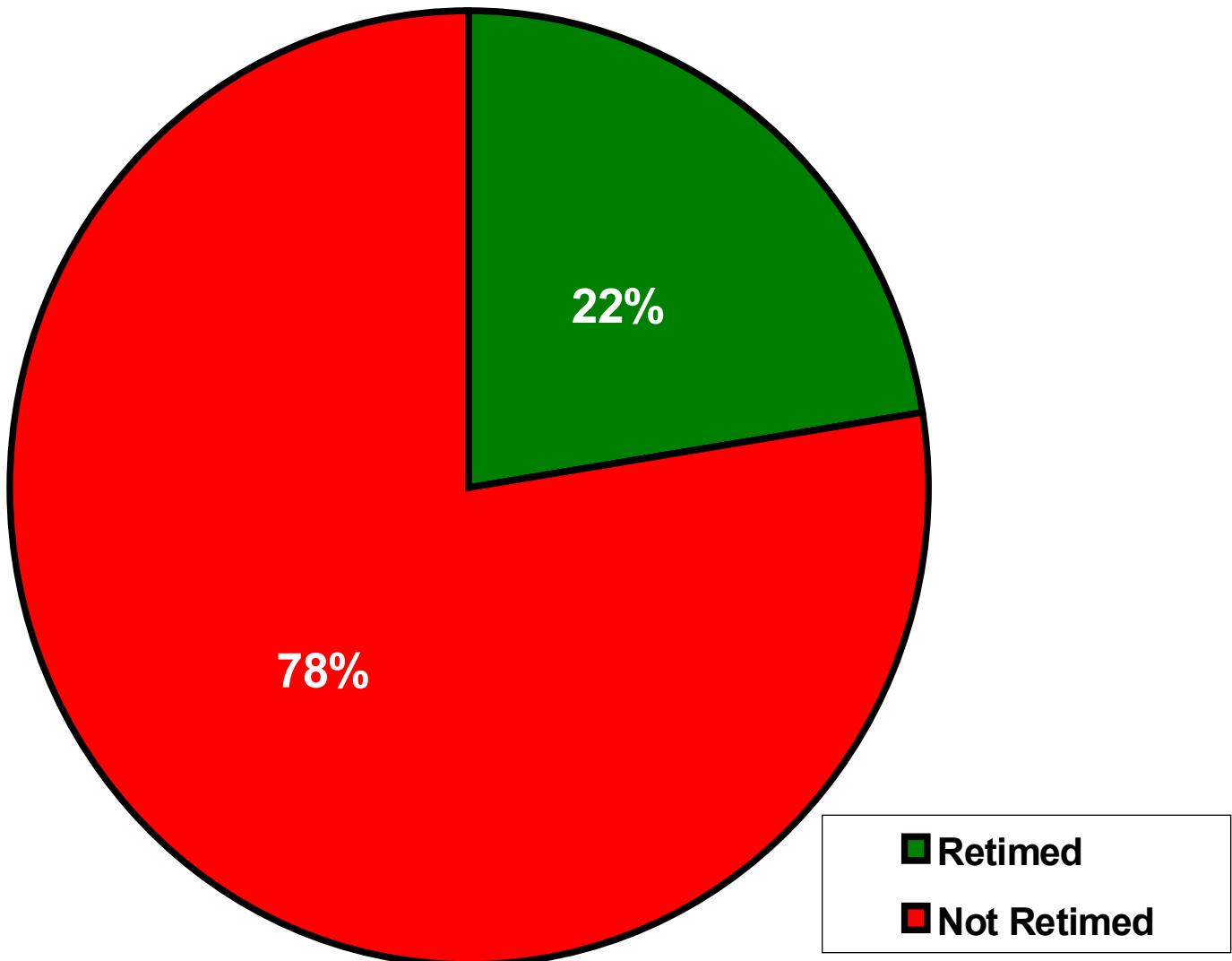
# **FY 04 versus FY 05 versus FY 06 Emergency Maintenance Calls**



## FY06 Signals Retimed - Statewide

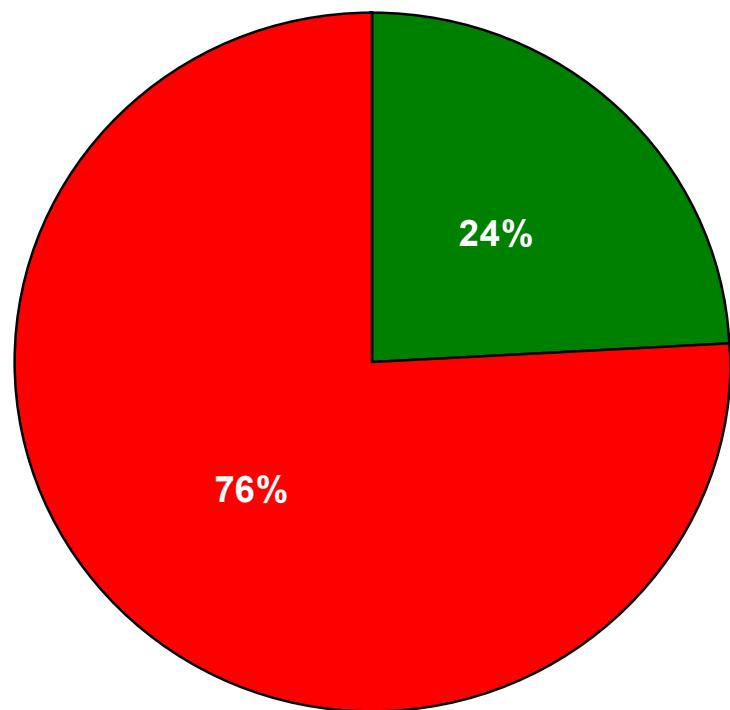


## FY06 Signals Retimed - Statewide

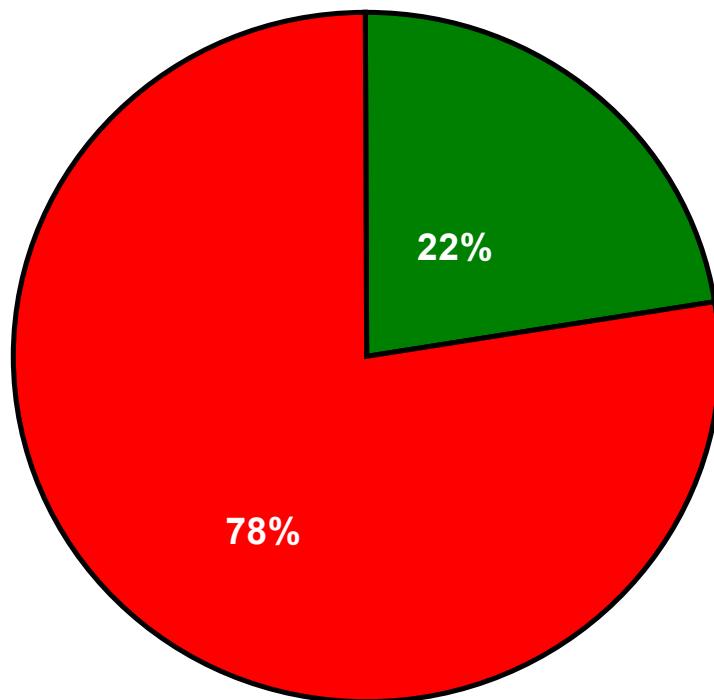


## Signal Timing - Statewide

FY 05



FY 06



■ Retimed	■ Not Retimed
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